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| L5 and L6 | 2 |

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| <u>L7</u> | l5 and L6 | 2 | <u>L7</u> |
| <u>L6</u> | course adj correction | 1312 | <u>L6</u> |
| <u>L5</u> | l3 and L4 | 16 | <u>L5</u> |
| <u>L4</u> | presence or absence | 2367772 | <u>L4</u> |
| <u>L3</u> | l1 and L2 | 38 | <u>L3</u> |
| <u>L2</u> | host adj vehicle | 1302 | <u>L2</u> |
| <u>L1</u> | lane adj deviat\$ | 409 | <u>L1</u> |

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Search Results - Record(s) 1 through 3 of 3 returned.

1. Document ID: US 20050096827 A1

L11: Entry 1 of 3

File: PGPB

May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050096827

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050096827 A1

TITLE: Lane departure prevention apparatus

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|--------------|-------|---------|---------|
| Sadano, On | Atsugi-shi | | JP | |
| Uemura, Yoshitaka | Kawasaki-shi | | JP | |
| Ozaki, Masahiro | Yokohama-shi | | JP | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | COUNTRY | TYPE CODE |
|------------------------|----------|-------|---------|-----------|
| Nissan Motor Co., Ltd. | Yokohama | | JP | 03 |

APPL-NO: 10/ 960706 [PALM]

DATE FILED: October 8, 2004

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | DOC-ID | APPL-DATE |
|---------|----------------|-----------------------|-------------------|
| JP | JP 2003-369447 | 2003JP-JP 2003-369447 | October 29, 2003 |
| JP | JP 2003-388209 | 2003JP-JP 2003-388209 | November 18, 2003 |
| JP | JP 2003-412061 | 2003JP-JP 2003-412061 | December 10, 2003 |

INT-CL: [07] G06 F 19/00

US-CL-PUBLISHED: 701/070; 701/001

US-CL-CURRENT: 701/70; 701/1

REPRESENTATIVE-FIGURES: 2

ABSTRACT:

A lane departure prevention apparatus is configured to conduct a course correction in a lane departure avoidance direction when the controller 8 determines that there is a potential for a vehicle to depart from a driving lane. The controller 8 combines yaw control and deceleration control to conduct departure prevention control to avoid lane departure. The yaw control is not actuated if the opposite direction from the steering direction coincides with the lane departure direction (steps S10 and S11). Preferably, the controller 8 sets the timing of yaw moment and the deceleration of the vehicle on the basis of the acceleration or deceleration of

the vehicle, and performs braking control so that these settings are achieved (steps S7 to S9). Preferably, the controller 8 calculates the target yaw moment in the lane departure-avoidance direction on the basis of the running state of the vehicle, and calculates the deceleration amount by taking into account the driver braking operation amount.

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KVMC | Draw Desc | Image |
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☐ 2. Document ID: US 20050096826 A1

L11: Entry 2 of 3

File: PGPB

May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050096826
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20050096826 A1

TITLE: Lane departure prevention apparatus

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|--------------|-------|---------|---------|
| Iwasaka, Takeshi | Zama-shi | | JP | |
| Ozaki, Masahiro | Yokohama-shi | | JP | |
| Uemura, Yoshitaka | Kawasaki-shi | | JP | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | COUNTRY | TYPE CODE |
|------------------------|----------|-------|---------|-----------|
| Nissan Motor Co., Ltd. | Yokohama | | JP | 03 |

APPL-NO: 10/ 960703 [PALM]

DATE FILED: October 8, 2004

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | DOC-ID | APPL-DATE |
|---------|----------------|-----------------------|-------------------|
| JP | JP 2003-372852 | 2003JP-JP 2003-372852 | October 31, 2003 |
| JP | JP 2003-419053 | 2003JP-JP 2003-419053 | December 17, 2003 |

INT-CL: [07] G06 F 19/00

US-CL-PUBLISHED: 701/070; 701/001

US-CL-CURRENT: 701/70; 701/1

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A lane departure prevention apparatus is configured to conduct a course correction in a lane departure avoidance direction when the controller determines that there is a potential for a vehicle to depart from a driving lane. The controller combines yaw control and deceleration control to conduct departure prevention control in accordance with the lane departure condition and the running condition. Preferably, a target yaw moment in a lane departure avoidance direction is calculated which takes in consideration the running condition of the vehicle such as disturbances changing the vehicle behavior and the road surface friction coefficient of the driving lane, and a deceleration amount of a necessary minimum for suppressing a feeling of

discomfort in the passengers stemming from the yaw moment provided to the vehicle is calculated based on the basis of the running condition of the vehicle.

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☐ 3. Document ID: US 20040098197 A1

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File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098197

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040098197 A1

TITLE: Automotive lane deviation avoidance system

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|----------|-------|---------|---------|
| Matsumoto, Shinji | Kanagawa | | JP | |
| Naito, Genpei | Yokohama | | JP | |
| Tange, Satoshi | Kanagawa | | JP | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | COUNTRY | TYPE CODE |
|------------------------|------|-------|---------|-----------|
| NISSAN MOTOR CO., LTD. | | | | 03 |

APPL-NO: 10/ 693946 [PALM]

DATE FILED: October 28, 2003

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | DOC-ID | APPL-DATE |
|---------|-------------|--------------------|-------------------|
| JP | 2002-336634 | 2002JP-2002-336634 | November 20, 2002 |

INT-CL: [07] G08 G 1/16

US-CL-PUBLISHED: 701/301; 701/096, 340/903

US-CL-CURRENT: 701/301; 340/903, 701/96

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

In an automotive lane deviation avoidance system that prevents a host vehicle from deviating from its driving lane by correcting the host vehicle's course in a direction that avoids the host vehicle's lane deviation in the presence of a possibility of the host vehicle's lane deviation, the system calculates a desired yawing moment needed to avoid the host vehicle's lane deviation from the driving lane. The system compensates for the desired yawing moment by a correction factor or a gain, which is determined based on a throttle opening of the host vehicle.

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMMC | Draw Desc | Image |
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